

Technical Bulletin

Bag Chambers

Materials

Multilayer film construction with LDPE fluid contact layer, EVOH gas barrier and nylon outer layer.

Physical Properties

	ASTM ¹	Units	Typical Value
Thickness			
50 ml - 1 liter Chamber	N/A	mils	7.0
2 liter - 500 liter Chamber	N/A	mils	12.0
Tensile Strength (MD)	D882A	psi	5300
Tear Resistance	D1922	grams	>800
Seam Strength	D882	lbs/in	>25
Dart Impact	D1709	grams	>1600
Operating Temperature	N/A	°C	-80 to +60
O ₂ Transmission Rate	F-1927	cc/100 in ² /24 hr	0.02
CO ₂ Transmission Rate ²	N/A	cc/100 in ² /24 hr	<0.06

(1) ASTM test results reported using 7.0 mil chamber construction

(2) CO₂ transmission rate reported using raw material performance data

Biological & Particulate Testing

	Test Protocol	Result
Cytotoxicity, <i>In Vitro</i>	ISO-10993-5	Pass
Biological Reactivity, <i>In Vivo</i> (USP Class VI)	USP <88>	Pass
Endotoxin	USP <85>	Pass
Particulate Matter	USP <788> EP <2.9>	Pass
Polyethylene with Additives for Containers	EP <3.1.5>	Pass
Physicochemical Tests for Plastics	USP <661>	Pass
Sterile Purified Water (Oxidizable Substances)	USP <1231>	Pass

Sterilization

	Test Protocol	Result
Microbiological Validation of 25kGy Radiation Sterilization	ANSI/AAMI/ISO 11137	10 ⁻⁶ SAL 2 Year Expiry

Animal-Derived Components

All chamber materials are free of animal-derived components.

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